



Principles of Flight

Pooleys Ground School – To accompany the Air Pilot's Manual, Volume 4



POOLEY'S

Principles of Flight

Pooleys EASA PPL Ground School

– To accompany the Air Pilot's Manuals –

Pooleys Flight Equipment Ltd | Elstree Aerodrome | Hertfordshire | WD6 3AW

Tel: **+44(0)20 8953 4870** | Fax: **+44(0)20 8953 2512**

Email: **sales@pooleys.com** | Website: **www.pooleys.com**



Nothing in this manual supersedes any EU legislation, rules or EASA regulations or procedures and any operational documents issued by The Stationery Office, the Civil Aviation Authority, National Aviation Authorities, the manufacturers of aircraft, engines and systems, or by the operators of aircraft throughout the world. Note that as maps and charts are changed regularly, those extracts reproduced in this presentation must not be used for flight planning or flight operations.



Principles of Flight

Pooleys Ground School – To accompany the Air Pilot's Manual, Volume 4



Instructions

Welcome to the latest edition of the EASA Aeroplane – Principles of Flight PowerPoint presentation from Pooleys.

From the “**Index**” page, select the section of the PowerPoint you want to cover during your ground school lesson using the navigation buttons. You can return to the index at any point by pressing the “**home**” button on the bottom right hand corner of every page.

To move forward through the presentation either press the space bar, the right arrow key or you can left click on your mouse. To go back a page just press the left arrow key on your keyboard.

If you want to return to a particular page, right click using the mouse anywhere on the presentation (*at any point*) and select “**Go**” then left click on “**Slide Navigator**.” You simply select the page you want and PowerPoint will take you straight to it.

To end the program at any time, just press the “**Escape**” key on your keyboard.

We hope you enjoy the presentation

Now press the “**home**” button in the bottom right hand corner to return to the index





Principles of Flight

Pooleys Ground School – To accompany the Air Pilot's Manual, Volume 4



Instructions

Editorial Team

INDEX

Chapters 1-14

Chapter 1

Forces Acting on an Aeroplane

Chapter 2 – Weight

Chapter 3 – Aerofoil Lift

Chapter 4 – Drag

Chapter 5 – Lift/Drag Ratio

Chapter 6

Thrust from the Propeller

Chapter 7 – Stability

Chapter 8 – Control

Chapter 9 – Flaps

Chapter 10 – Straight and Level

Chapter 11 – Climbing

Chapter 12 – Descending

Chapter 13 – Turning

Chapter 14 – Stalling



Principles of Flight

Pooleys Ground School – To accompany the Air Pilot's Manual, Volume 4



Editorial Team

Jonathan Shooter

Jonathan had his first trial lesson on his twelfth birthday before going on to gain his PPL with the help of an RAF flying scholarship. He went on to fly with the University Air Squadron before gaining airline sponsorship in conjunction with one of Europe's largest flying schools. He taught the PPL and associated ratings at Elstree aerodrome before gaining an internal promotion to teach the CPL and Instrument Rating at the commercial college at Cranfield aerodrome. In 2004 he was awarded a flying bursary from The Air League. After two years he joined his sponsoring airline and flew the Dash 8 Q400 throughout Europe. In 2005 he joined Europe's largest tour operator and flew the Boeing 757, 767, A320 & A321 both on short and long haul operations. He currently flies the 737NG and has over 7000 hrs with 1500 hrs instructional experience on commercial courses. He holds European, Canadian and American airline transport licences and is an authorised PPL examiner for both single and multi-engine aeroplanes.

Dorothy Saul-Pooley LLB (Hons) FRAeS

Dorothy holds an ATPL (A) and a CPL (H), and is both an instructor and examiner on aeroplanes and an instructor on helicopters. She is Head of Training for a school dedicated to running Flight Instructor courses at Shoreham. She is also a CAA Flight Instructor Examiner. In addition, having qualified as a solicitor in 1982, Dorothy acted for many years as a consultant specialising in aviation and insurance liability issues, and has lectured widely on air law and insurance issues. This highly unusual combination of qualifications led to her appointment as Honorary Solicitor to the Guild of Air Pilots and Navigators (GAPAN). Dorothy is a Fellow of the Royal Aeronautical Society, past Chairman of both the GAPAN Instructor Committee and the Education & Training Committee, as well as serving as a Warden on their Court. She has served as Master Elect of GAPAN, which has now changed its name to the Honourable Company of Air Pilots. Dorothy became the Master from March 2014 for a one year term. In 2003 she was awarded the Jean Lennox Bird Trophy for her contribution to aviation and support of Women in Aviation and the BWPA (British Women Pilots Association). In 2013 Dorothy was awarded the prestigious Master Air Pilot Certificate by GAPAN. A regular contributor to seminars and conferences, Dorothy is the author and editor of a number of flying training books and has published articles in legal and insurance journals.

Presentation designed and edited by Daljeet Gill, BA (Hons).

